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(54) Title: SOLID PHASE EXTRACTION INSTRUMENT AND METHOD FOR SOLID PHASE EXTRACTION (57) Abstract <p>The invention relates to a solid phase extraction process that comprises one or more of the following steps: a) conditioning a sorbent in a cartridge, a liquid suitable for conditioning being passed through the cartridge; b) applying a sample that contains the analyte to the sorbent, a liquid which contains the sample being passed through the cartridge; c) washing the sorbent, a wash liquid being passed through the cartridge; d) eluting the analyte from the sorbent, an elution liquid being passed through the cartridge. According to the invention the temperature of the cartridge is controlled during one or more of steps a) to d). In this context the temperature of the cartridge is in particular controlled by heating or cooling one or more of the liquids used in step a) to d) before feeding it to the cartridge.</p>		